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Serial No. : 09/901,297
Filed : July 9, 2001
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Attorney's Docket No.: 07985-019002

Amendments to the claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-16. (Cancelled)

17. (Previously presented) A nucleic acid amplification method, comprising:

- (1) providing a sample vessel and temperature and pressure controllers for the vessel;
- (2) providing a first nucleic acid to be amplified, a nucleic acid primer that is at least partially complementary to the first nucleic acid, a DNA polymerase, and four deoxyribonucleoside triphosphates; wherein the primer has a nucleotide sequence that hybridizes to an internal nucleotide sequence in the first nucleic acid, the primer capable of being extended at least one nucleotide by the polymerase using the first nucleic acid as a template;
- (3) increasing the temperature in the vessel to a temperature effective to cause denaturation of the first nucleic acid;
- (4) increasing pressure in the vessel to a pressure above ambient pressure that allows hybridization between the denatured first nucleic acid and the primer; and
- (5) allowing the DNA polymerase to extend the primer using the denatured first nucleic acid as a template, thereby making a copy of a least part of the first nucleic acid.

18. (Previously presented) The method of claim 17, further comprising:

- (6) decreasing pressure to a pressure at which the first nucleic acid again dissociates; and
- (7) repeating steps (4)-(6) to further amplify the first nucleic acid.

19. (Previously presented) The method of claim 17, wherein the primer is labelled.

20-22. (Cancelled)

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